Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm – SEMESTER I– • EXAMINATION – WINTER-2015 Subject Code: 2210004 Date: 05/01/2016

Subject Name: Human Anatomy and Physiolog	Sub	ject Name: Hu	ıman Anatomy	y and Ph	ysiolog	ZV
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Time: 10.30 AM to 01.30 P.M Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Explain the process of "Cell division" Differentiate the following Page and Contilege	06
	(b) (c)	Differentiate the following: Bone and Cartilage. Explain physiology of muscle contraction.	05 05
Q.2	(a)	Classify transport mechanism across cell membrane. Explain each of them with suitable examples.	06
	(b) (c)	Describe the role of T-lymphocyte in immunity Explain functions of Golgi apparatus and mitochondria.	05 05
Q.3	(a)	Explain following diseases: (a) Cardiac arrhythmias (b) Hypertension(c). Angina Pectoris (d)Atherosclerosis	06
	(b) (c)	Write a short note on ECG Define blood pressure. Write a note on renin angiotensin system.	05 05
Q.4	(a) (b) (c)	Discuss the digestion and absorption of nutrients from small intestine Classify Epithelial Tissue? Add a note on Simple Epithelium. Write a note on salivary glands.	06 05 05
Q.5	(a) (b) (c)	Write composition, function and circulation of Lymph. Explain anatomy and physiology of spleen. Describe the structure and functions of Lymph Node.	06 05 05
Q. 6	(a) (b) (c)	Explain erythropoiesis process and role of erythropoietin Write a note on blood group with it significance Define anemia? Discuss the different types of anemia	06 05 05
Q.7	(a) (b) (c)	Classify joints. Write a note on synovial joint. Differentiate: Skeletal and cardiac muscles. Explain the structure and functions of Cell membrane	06 05 05
